Project Title	Funding	Strategic Plan Objective	Institution
Using near-infrared spectroscopy to measure the neural correlates of social and emotional development in infants at risk for autism spectrum disorder	$0	Q1.L.A	City of New York, College of Staten Island
Excitatory/Inhibitory Imbalance in Autism and Early-course Schizophrenia	$0	Q2.L.B	Connecticut Mental Health Center
The Interplay Between Human Astrocytes and Neurons in Psychiatric Disorders	$0	Q2.Other	University of California, San Diego
Reconceptualizing Brain Connectivity and Development in Autism	$0	Q2.Other	University of Miami
Dissecting the Human Magnocellular Visual Pathway in Perceptual Disorders	$0	Q2.Other	New York University
Integrative Regulatory Network Analysis of iPSCs Derived Neuronal Progenitors from Macrocephalic ASD Individuals in a Family-based Design	$0	Q2.Other	Yale University
Signaling Pathways that Regulate Excitatory-inhibitory Balance	$0	Q2.Other	University of California, San Diego
TSC/mTOR Signaling in Adult Hippocampal Neurogenesis: Impact on Treatment and Behavioral Models of Autism Spectrum Disorders in Mice	$0	Q2.Other	University of California, Los Angeles
Brain-behavior interactions and visuospatial expertise in autism: a window into the neural basis of autistic cognition	$0	Q2.Other	Hospital Riviere-des-Praires, University of Montreal, Canada
Abnormal connectivity in autism	$0	Q2.Other	University of California, Los Angeles
Neural Basis of Deficits in Multisensory Integration in Schizophrenia and ASD	$0	Q2.Other	Columbia University
Interrogating Synaptic Transmission in Human Neurons	$0	Q2.Other	Stanford University
Corticogenesis and Autism Spectrum Disorders: New Hypotheses on Transcriptional Regulation of Embryonic Neurogenesis by FGFs from In Vivo Studies and RNA-sequencing Analysis of Mouse Brain	$0	Q2.Other	Yale University
Antigenic Specificity and Neurological Effects of Monoclonal Anti-brain Antibodies Isolated from Mothers of a Child with Autism Spectrum Disorder: Toward Protection Studies	$0	Q2.S.A	The Feinstein Institute for Medical Research
Behavioral, Cognitive, and Neural Signatures of Autism in Girls: Towards Big Data Science in Psychiatry	$0	Q2.S.B	Stanford University
Role of Serotonin Signaling during Neural Circuitry Formation in Autism Spectrum Disorders	$0	Q2.S.D	Massachusetts Institute of Technology
A Novel Glial Specific Isoform of Cdkl5: Implications for the Pathology of Autism in Rett Syndrome	$0	Q2.S.D	University of Nebraska
Modeling Microglial Involvement in Autism Spectrum Disorders, with Human Neuro-glial Co-cultures	$0	Q2.S.D	Whitehead Institute for Biomedical Research
Multimodal Characterization of the Brain Phenotype in Children with Duplication of the 7q11.23 Williams Syndrome Chromosomal Region: A Well-defined Genetic Model for Autism	$0	Q2.S.G	National Institutes of Health

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Genotype to Phenotype Association in Autism Spectrum Disorders	$0	Q2.S.G	Massachusetts General Hospital
A Massively Parallel Approach to Functional Testing of PTEN Mutations	$0	Q2.S.G	Oregon Health & Science University
Identifying Patterns of Genetic Variants Conferring Risk for Neurodevelopmental Disorders	$0	Q3.L.B	Pennsylvania State University
High-throughput Screening of Novel Trinucleotide Repeat Expansion in Autism Spectrum Disorders	$0	Q3.L.B	The Hospital for Sick Children
Epigenetic Regulation of Gene Expression and DNA Methylation Associated with Autism Spectrum Disorders	$0	Q3.S.J	Johns Hopkins University
Enhancing Social Learning Through Oxytocin Augmentation of Social Skills Groups in Children with ASD	$0	Q4.L.D	Rush University
Rebuilding Inhibition in the Autistic Brain	$0	Q4.S.B	Brandeis University
Brain Connectivity Changes in Autism as a Function of Motor Training: A Pilot Study	$0	Q4.S.F	University of Wisconsin
Brain Transcriptome Sequencing and Non-coding RNA Characterization in Autism Spectrum Disorders	$14,950	Q2.Other	University of New South Wales
The PI3K Catalytic Subunit p110delta as Biomarker and Therapeutic Target in Autism and Schizophrenia	$15,000	Q2.Other	Cincinnati Children's Hospital Medical Center
Characterization of synaptic and neural circuitry dysfunction underlying ASD-like behaviors using a novel genetic mouse model	$15,000	Q4.S.B	Duke University
Predicting outcomes in autism with functional connectivity MRI	$17,381	Q1.L.B	National Institutes of Health
A Novel GABA Signalling Pathway in the CNS	$25,000	Q2.Other	MCLEAN HOSPITAL
Investigations of a Proposed Molecular Feedback Loop in Cortical Neurons in Psychiatric Pathogenesis	$25,000	Q4.S.B	University of California, San Francisco
Development of a connectomic functional brain imaging endophenotype of autism	$27,327	Q2.Other	University of Cambridge
The use of non-invasive brain stimulation to improve social relating in autism spectrum disorders	$28,000	Q4.S.F	Monash University
Engagement of Social Cognitive Networks during Game Play in Autism	$29,933	Q2.Other	Duke University
Probing the temporal dynamics of aberrant neural communication and its relation to social processing deficits in autism spectrum disorders	$29,987	Q2.Other	University of Pittsburgh
Sequence-based discovery of genes with pleiotropic effects across diagnostic boundaries and throughout the lifespan	$29,995	Q3.L.B	Massachusetts General Hospital
A Role for Cytoplasmic Rbfox1/A2BP1 in Autism	$30,000	Q2.Other	University of California, Los Angeles

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a-Actinin Regulates Postsynaptic AMPAR Targeting by Anchoring PSD-95	$30,000	Q2.Other	University of California, Davis
Perturbation of Excitatory Synapse Formation in Autism Spectrum Disorders	$30,000	Q2.Other	Max Planck Florida Institute for Neuroscience
Developmental in Axons underlie Neuropsychiatric Illness	$30,000	Q2.Other	Children's Research Institute (CRI) Children's National Medical Center
Regulation of Interneuron Development in the Cortex and Basal Ganglia by Coup-TF2	$30,000	Q2.Other	University of California, San Francisco
Investigating the Role of RBFOX1 in Autism Etiology	$30,000	Q2.Other	University of Miami
Investigating brain organization and activation in autism at the whole-brain level	$30,000	Q2.Other	California Institute of Technology
Activity-dependent Mechanisms of Visual Circuit Formation	$30,000	Q2.Other	Children's Research Institute (CRI) Children's National Medical Center
Dissecting Reciprocal CNVs Associated With Autism	$30,000	Q2.Other	Duke University
Modeling Pitt-Hopkins Syndrome, an Autism Spectrum Disorder, in Transgenic Mice Harboring a Pathogenic Dominant Negative Mutation in TCF4	$30,000	Q2.S.D	University of North Carolina
Understanding the Genetic Architecture of Rett Syndrome - an Autism Spectrum Disorder	$30,000	Q2.S.D	Cold Spring Harbor Laboratory
Studying Rett and Fragile X syndrome in human ES cells using TALEN technology	$30,000	Q2.S.D	Whitehead Institute for Biomedical Research
Autism Linked LRRTM4-Heparan Sulphate Proteoglycan Complex Functions in Synapse Development	$30,000	Q2.S.G	University of British Columbia
Identification and Functional Analysis of Risk Genes for Autistic Macrocephaly	$30,000	Q2.S.G	King's College London
Evaluating the Functional Impact of Epigenetic Control Related Genes Mutated in both Schizophrenia and Autism	$30,000	Q3.S.J	Columbia University
Cellular and Synaptic Dissection of the Neuronal Circuits of Social and Autistic Behavior	$30,000	Q3.S.K	University of Coimbra
Exploration of resting-state network dynamics in autism spectrum disorders	$30,000	Q4.Other	Harvard University
Whole Brain Mapping of the Effects of Intranasal Oxytocin in CNTNAP2 KO Mouse Model of Autism	$30,000	Q4.Other	Cold Spring Harbor Laboratory
Pinpointing Genes Underlying Autism in Chromosomal Region 16p11.2	$30,000	Q4.S.B	Cold Spring Harbor Laboratory
The role of the GRIP protein complex in AMPA receptor trafficking and autism spectrum disorders	$45,000	Q2.Other	Johns Hopkins University
Novel Proteomics Approach to Oxidative Posttranslational Modifications Underlying Anxiety and Autism Spectrum Disorders	$65,859	Q3.S.E	Sanford Burnham Medical Research Center

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Dysregulated Translation and Synaptic Dysfunction in Medium Spiny Neurons of Autism Model Mice	$66,667	Q2.Other	New York University